UTAH OIL AND CAS CONSERVATION COMMISSION

REMARKS	WELL LOG	Ett	TRIC LOGS	FILE X	WATER SANDS		NON INSPECTI	ED	Sui	REPORT ILI	
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DATE FILED		SEPTEM	BER 10	1993							
LAND FEE & P	ATENTED	SIATE LI	EASE NO		,	UBLIC LEASE NO				IN DIATE NO	OG
DRILLING APPR	OVED	SEPTEM	BER 1,	1992						870	02-1116
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INITIAL PRODU	CTION										
GRAVITY API								Thill	1:1110		
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PRODUCING 20	MES										
TOTAL DEPTH											
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FIŁLD		WILDCA	T								
UNIT		NA									
COUNTY		SAN JU	ΔΝ								
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IWP	RGE	SEÇ	OPERATOR	 -		TWP	RGE	SEC	OPERATOR		
405	25E	I	CHUSKA	ENERGY	COMPANY						

G NFIDENTIAL

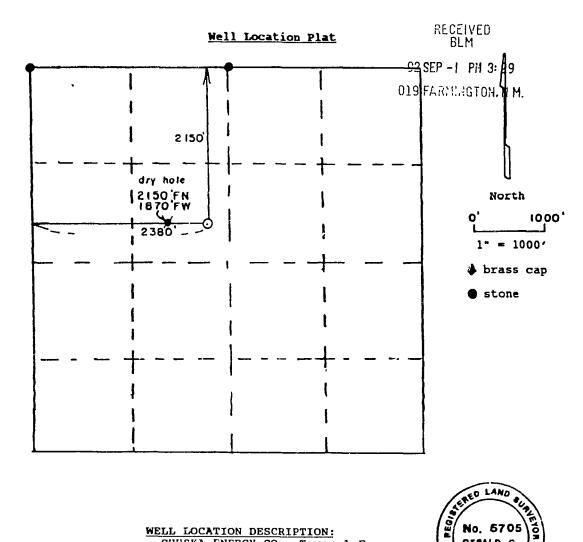
Form 3160,2 (December 1990) SUBMIT IN TRIFLICATES

(Other Instructions on reverse side)

Form approved,
stions on Budget Bureau No. 1004-0136
de) Emires December 31, 1991

(Britemer 1990)		ED STATES	reverse	uide) Empires I	December 31, 1991		
		OF THE INTE		S LEASE DESIGNA	TION AND STRIAL NO		
ADDI	CATION FOR P	LAND MANAGEME		NOC 8702	NOC 8702-1116		
AFFLI La TYPE OF WORK		- Navajo Tribal					
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NAME OF SPERATOR	THE CLIP CINER						
Chuska Energy	Company			Tower 1F			
3315 Bloomfie LOCATION OF WELL (R At SUITAGE 2/20	1d Highway, Farreport location clearly and	nington, NM 87	401 r State requiremen a *1	10 FIELD AND PO			
223 0 1	FNL & 2550' FWL			11 SSC, T, B, M	Uldcat 11 SBC, T, B, M, OB SLE AND SURVEY OR AREA		
At proposed pred son							
4 DISTANCE IN MILES	AND DIBECTION FROM NEAR	BET TOWY OR POST CIFF	ics.	1-405-25F 12 COUNTY OR P	ARIEM 13 STATE		
8 miles north	of Montezuma Ci	eek, Urah		San Juan	Utah		
	of Montezuma C	16	NO OF ACRES IN LEASE	17 NO OF ACRES ASSIGNED TO THIS WELL			
(Also to mentest drig	unit line, if any) Of	00' 4	9,997	20 ROTARY OR CABLE TOOLS			
TO NEAREST WELL D	RILLIYG COMPLETED	\alpha\	130'	Rotary			
	ether DF, RT GR, etc. This	action is subject to	bar Issimiser	22 APPROX PAT	E WORE WILL STAATS		
5167' GR/5180	- CO	SEDEST ESTEVENT IN	ant to 43 CFR 31 W.1	I Match 92			
· · · · · · · · · · · · · · · · · · ·		PROPOSED CASING A	ND CEMENTING PROGR	AM Deall C Created of			
SIZE OF HOLE	BRADE, SIZE OF CASINO	T EIGHT PER FOOT	BETTING DEPTH		Carron In Faire		
12 1/4" 7 7/8"	K-55, 8 5/8" K-55, 5 1/2"	24.0	500'		71/4 celloila		
7 770	- K-JJ, J 1/2	15.5	6000'	Class 'C'/2% CaCl	11/A cerrotia		
SEE ATTACHED I	FOR 10 POINT DRI	LLING PLAN ANI	CONF	LING PROGRAM	2-6 PH 1:28		
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N ABOVE SPACE DESCRUB	E PROPOSED PROGRAM IF	reposal is te deepes, give da	sta en present preductive zer	se and proposed new productive zone	If proporal is to drill or		
repen directionally, give perti	nent data en subsurface location	end measured and true vert	ical depitu. Give blowout pre	venter program, if any			
5	4.11/91	$\left(\bigcirc \right)$	O				
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112	ral or State office use) '- ひろフ 3/クス・	i.		AS AMENDED	RU49- 3-3		
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			fa-	REA MAKAGER			
APPROVED BY		mile	<u>`_7</u>	u mudybæme			

*See Instructions On Reverse Side OPERATA.



WELL LOCATION DESCRIPTION:

CHUSKA ENERGY CO., Tower 1-F 2150'FNL & 2380'FWL Section 1, T.40 S., R.25 E., SLM San Juan County, UT 5170' ground elevation

State plane coordinates from seismic control: X = 2,690,993 Y = 253,800

sta 352, line 91P3-6 found shot points 356, 357 & 349

The above is true and correct to my knowledge and belief.

13 April 1992

No. 5705\6

GERALD G.

HUDDLESTON

TATE OF U

CHUSKA ENERGY COMPANY

10 POINT DRILLING PLAN

Tower 1F

Section 1, Township 40 South, Range 25 East 2230' FNL & 2550' FWL San Juan County, Utah

SURFACE FORMATION:

Geological name of surface formation: Morrison

ELEVATION:

Surface elevation is 5,167' GR/ 5,180 KB

ESTIMATED FORMATION TOPS

DEPTH	FORMATION	SUB-SEA ELEV.
1175'	Navajo	+4005'
1797'	Chinle	+3383'
2871'	DeChelly	+2309'
2887'	Organ Rock	+2293'
3617'	Cedar Mesa	+1563'
4760'	Harmosa	+ 420
5705′	Upper Ismay	-525'
58 43 ′	Lower Ismay	-663' Secondary
5950'	Desert Crk	-770' Primary
6033'	Akah	-853'
6130'	Total Depth	-950 '

4. PROPOSED CASING/CEMENTING PROGRAM

	DEPTH	SIZE	WEIGHT	GRADE	COUPLING
SURFACE PROD.	500' 6000'	8 5/8" 5 1/2"	24.0 ppf 15.5 ppf		STC STC

SURFACE CEMENTING:

371 sx Class 'G' Cement with 2% CaCl and 1/4 lb/sk Celloflake. Weight = 15.8 ppg, yield = 1.15 ft3/sk. Slurry volume will be calculated at 100% excess over annular volume.

PRODUCTION CEMENTING:

First Stage

TD to 3500' (stage collar @ +3500'). Lead with 168 sx Class 'G' cement, 65:35 Pozmix with 6% gel and 1/4 lb/sk Celloflake. Weight = 12.7 ppg, yield = 1.85 ft3/sk. Tail with 100 sx Class 'G' cement with 2% CaCl2. Weight = 15.8 ppg, yield = 1.15 ft3/sk. Total of 426 ft3.

SECOND STAGE

3500' to surface. Lead with 271 sx Class 'G' cement, 65:35 Pozmix with 6% gel and 1/4 lb/sk Celloflake. Weight = 12.7 ppg, yield + 1.85 ft/sk. Tail with 100 sx Class 'G' cement with 2% CaCl2. Weight = 15.8 ppg, yield = 1.15 ft3/sk. Total of 616 ft.3

NOTE: Exact slurry volumes for the production string will be adjusted according to the caliper log which will be run prior to cementing. Special adjustments may be necessary if significant amounts of salt are drilled.

5. BLOWOUT PREVENTER (SEE ATTACHED SCHEMATICS)

As abnormal pressure is not anticipated, a 2000 psi BOP system would be sufficient for the drilling or this well. However, due to availability constraints, a 3000 psi system will be used, as per attached Exhibits "A" and "B". This will be a 10" x 900 series double ram preventer, equipped with a set of pipe and blind rams.

An accumulator system, with a pressure capacity sufficient to operate the rams three complete cycles without rig power, will be required as part of the rig equipment.

PROPOSED MUD PROGRAM

Surface to 3500'

Fresh water, gel, lime and native solids. Weight 8.3 - 8.7 ppg. Gel/lime sweeps are necessary for hole cleaning.

3500' to TD

Low solids, non-dispersed polymer system. Weight 8.6 - 8.8 ppg. Gel/lime sweeps as hole conditions dictate for hole cleaning. Fluid loss to be maintained at 15 cc or less. Fluid loss to be further reduced to 10 cc or less prior to coring, logging or DSTS.

7. AUXILIARY EQUIPMENT

- A. A kelly cock will be installed during drilling operations, with handle available on rig floor.
- B. Floor (stabbing) valves will be available, on the rig floor at all times, with necessary subs to fit all of the drilling assemblies.
- C. Mud will be the circulating fluid. No abnormal formation pressures are expected.

8. WELL EVALUATION

Open hole electric logging program will consist of a minimum program of DLL-MSFL-SP-GR-Cal, FDC-CNL-GR-Lithodensity from TD - 4000'

Drill stem testing will be as per the wellsite geologists' recommendations, based on shows. A mud logging unit will be utilized during drilling operations from 4000' to TD.

9. ABNORMAL PRESSURES/GAS

Abnormal pressures are not anticipated. Monitoring of gas and hydrocarbon shows will be by wellsite mud logging unit. H2S gas is not anticipated, however, regular checks will be made while drilling the well.

10. TIMING

The drilling and evaluation of this well is estimated be 18 days. Anticipated drilling will be March'92.

DETAILED DRILLING PROGRAM

DATE: February 25, 1992

WELL NAME: Tower WELL NO.: 1F

LOCATION: Section 1, T40 South, R25 East

2230' FNL & 2550' FWL San Juan County, Utah

ELEVATION: 5,167'GR/5,180'KB

TOTAL DEPTH: 6130'KB

PROJECTED HORIZON: Primary Target is Desert Crk @ 5950'

Secondary Target is lower Ismay @ 5843'

DRILLING, CASING AND CEMENTING PROGRAM

 Move in and rig up rotary tools. Notify BLM of time of spud.

- Drill mouse hole and rat hole. Mix mud prior to spudding well.
- 3. Drill 12 1/4" hole to +/- 515'. Use fresh water gel/ lime spud mud for drilling surface hole. Well bore inclination is not to exceed 1 degree at 500'. Deviation surveys will be run at least at 250' and at casing point.
- 4. Run 8 5/8", 24 lb/ft, K-55, ST&C casing to TD. Cement with 371 sx (427 ft3) of Class 'G' cement with 2% CaCl2 and 1/4 #/sk Celloflake (sufficient slurry volume to circulate cement to surface.)
- W.O.C. a minimum of 4 hours prior to nippling up for BOP stack and related equipment. See BOP schematics for details.
- 6. Ensure that plug has been down at least 8 hours prior to commencing pressure testing procedures. Pressure test BOP to 2,500 psig for 30 minutes. 'ressure test manifold and all related equipment to 2500 psig. Pressure test casing to 1500 psig for 30 min.
- 7. Drill out surface casing with 7 7/8" bit. Drill 7 7/8" hole to TD. Deviation surveys are to be taken every 500' or on a bit trip, whichever occurs first. Maximum allowable deviation will be 5 degree @ TD, with maximum allowable rate of change to be 1 degree per 100'.

- Run open hole logs and evaluate. Coring and/or drill stem testing will be as per well site geologist's recommendation.
- 9. If the well is determined to be productive run 5 1/2" casing to TD., as per casin program in 10 Point Drilling Plan. Set stage cementing collar at +/- 3,500 ft. In addition to placing centralizers over potential production zones, they will also be run to cover the aquifer sands of the Navajo and DeChelly formations, as per BLM stipulations. Cement production casing in two stages as per cementing program in 10-Point Drilling Plan.
- 10. Nipple down BOPE. Set 5 1/2" casing slips and cut off casing. Install well head. Release drilling rig and move rig off location.
- If well is non-productive it will be plugged and abandoned as per State, BLM, and Navajo Tribal stipulations.

Tower 1F Section 1, Township 40 South, Range 25 East 2230' FNL & 2550' FWL San Juan County, Utah

GENERAL COMPLETION PROCEDURE:

If the well is determined to be productive, move in completion rig. Perforate, acidize, and test each productive porosity zone. Completion work will commence after Sundry Notice approval is received. Detailed procedures will follow.

PLUGGING AND ABANDONMENT:

If the well is determined not to be productive, the well bore will be plugged as per BLM, State and BIA requirements.

Tower 1F Section 1, Township 40 South, Range 25 East 2230' FNL & 2550' FWL San Juan County, Utah

1. EXISTING ROADS

Shown on the attached topographic map are the existing roads in the immediate area. Outlined is the route to be followed to Montezuma Creek. Existing roads will be maintained, as needed, while operations are in progress.

2. PLANNED ACCESS ROAD

The access road will be as shown on the attached topographic map. The road will be maintained as necessary to prevent excessive damage to the existing terrain. The road will be upgraded if commercial production is established. Owing to the well's proximity to an existing road, no new road will be constructed to the location pad.

3. LOCATION OF EXISTING WELLS & TANK BATTERIES

There are no other producing wells or facilities in the immediate area.

4. LOCATION OF EXISTING AND PROPOSED FACILITIES

No production facilities are presently in place. Should the well prove to be productive, facilities (tank battery etc) will be sited on the drilling location pad.

5. LOCATION AND TYPE OF WATER SUPPLY

Water will be acquired from the San Juan Rive or McElmo Creek and/or Chuska Energy's yard and all be hauled using Chuska Energy Company water trucks, under State of Utah Division of Water Rights Permit Numbers 09-1724, (T64796) or 09-1723 (T64795).

SOURCE OF CONSTRUCTION MATERIAL

The need for additional cons fraction materials is not anticipated. In the event that additional materials are required, they will be acquired either from private sources or with the approval of the Navajo Nation.

7. METHODS OF HANDLING WASTE MATERIAL

Trash will be contained on location in an enclosed bin. It will be hauled to an approved disposal site or burned on location if a burning permit is granted. The reserve pit will be lined as required, with an approved 7 mil liner, for containing drilling fluids. The pit will also be fenced. All drilling fluids, cuttings and chemical waste will be stored in the reserve pit. Liquid hydrocarbons will be stored in temporary storage tanks and hauled from location to approved sales facilities. The reserve pit will be emptied, back filled and restored to natural terrain status upon completion of drilling operations.

8. ANCILLARY FACILITIES

Chemical portable toilet facilities will be provided on location during drilling and completion operations. No camps or air strips are planned for this well.

9. WELL SITE LAYOUT

Attached is a surveyor's staking plat, cut and fill diagram and a schematic of the proposed rig layout.

10. PLANS FOR RESTORATION OF THE SURFACE

After drilling operations are completed, the location and surrounding area will be cleared of all remaining debris and materials not required for production. Compacted areas will be plowed or ripped to a depth of 12 to 16 inches before releeding. The existing reserve pit will be used. After drilling operations fluid in the reserve pit are complete, drilling will be allowed to evaporate. All remaining fluid in the pit will be disposed into an approved disposal site. The reserve pit will remain fenced during the evaporation and disposal process. The pit will then be covered and topsoil will be returned to the disturbed area. The terrain will be returned as near to its original condition as possible. Following operations, rehabilitation seeding will be in accordance with APD/BLM/BIA stipulations. There are no residents in the immediate area of the site.

11. OPERATORS REPRESENTATIVE

CHUSKA ENERGY COMPANY 3315 BLOOMFIELD HIGHWAY FARMINGTON, NM 87401 BARRY A. WIELAND

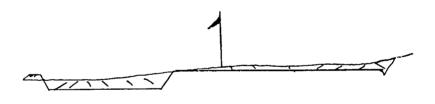
12. CERTIFICATION

I hereby certify that either I, or persons under my direct supervision have inspected the proposed drill site and access route: that I am familiar with the conditions which presently exist: that the statements made in this plan are, to the best of my knowledge, true and correct and that the work planned will be performed by Chuska Energy, or its sub-contractors, in conformity with the terms and conditions under which it is approved.

BARRY A. WIELAND OPERATIONS MANAGER Cut /////
Fill 2:04

1"=50' vert. & borz.









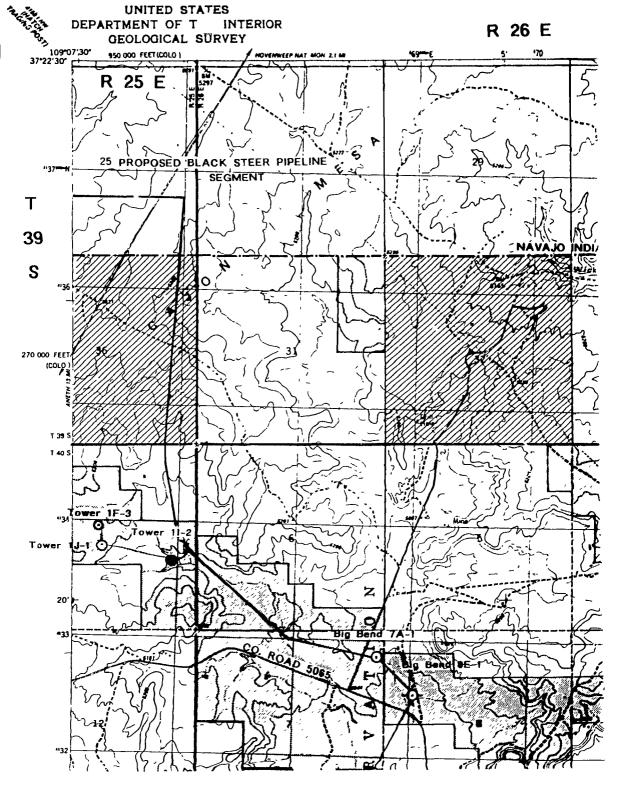
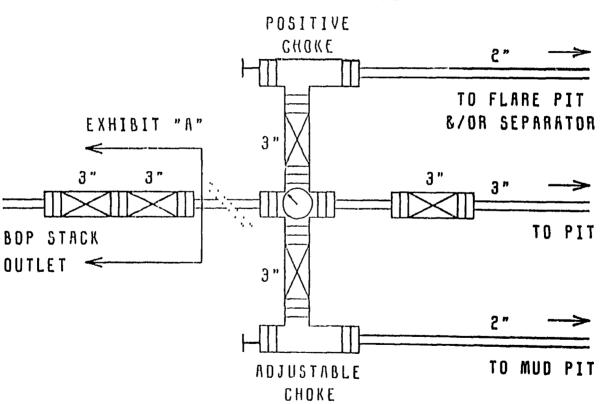


EXHIBIT "A" BLOWOUT PREVENTER ROTATING HEAD D Fillup Line MUD TO PIT PIPE RAMS BLIND RAMS EXHIBIT "B" 2 -DRILLING SPOOL KILL TD CHECK LINE CHOK VALVE MANIFOL CASING HEAD

EXHIBIT "B" CHOKE MANIFOLD



BLM CONDITIONS OF APPROVAL

Operator Chuska Energy Company	Well Name <u>IF Tower</u>
Legal Location 2150'FNL/2380'FWL	Sec. 1 T. 40S R. 25E
Lease Number NOG-8702-1116	Field Inspection Date 12/18/91

The following stipulations will apply to this well unless a particular Surface Managing Agency or private surface cwner has supplied to BLM and the operator a contradictory environmental stipulation. The failure of the operator to comply with these requirements may result in the assessment of liquidated damages or penalties pursuant to 43 CFR 3163.3 or 3163.4. A copy of these stipulations shall be present on location during construction, drilling and reclamation activity.

An agreement between operator and fee landowner will take precedence over BLM surface stipulations unless 1) the BLM determines that the operator's, actions will affect adjacent Federal or Indian surface (43 CFR Part 3160), or 2) the operator does not maintain the well area and lease premises in a workmanlike manner with due regard for safety, conservation and appearance (43 CFR Part 3162.7-4), or 3) no such agreement exists (43 CFR Part 3160), or 4) in the event of well abandonment, minimal Federal restoration requirements will be required (43 CFR Part 3162.7-2).

I. Location and Access Road

- A. Well area and lease premises will be maintained in a workmanlike manner with due regard to safety, conservation and appearance. All liquid waste, completion fluids and drilling products associated with oil and gas operations will be contained and then buried in place, or removed and deposited in an approved disposal site.
- B. Surface disturbance and vehicular traffic will be limited to the approved location and approved access road.
- C. Mud pits and blow pits will be constructed so as not to leak, break, or allow discharge of liquids or produced solids. At least half of the capacity of reserve pit must be in cut. The top of the outside wall of reserve pit should be smoothed-off with a minimum of one blade of width. The pit should have adequate capacity to maintain 2 feet of free board. Pits are not to be located in natural drainages. Pit walls are to be "walked down" by a crawler-type tractor following construction and prior to usage. Any plastic material used to line pits must be removed to belowground level before pits are covered. The final grade of reserve pit (after reclamation) shall allow for drainage away from the pit area.
- D. All unguarded pits (reserve/production/blow pits) containing liquids will be fenced with woven wire. Drilling pits will be fenced on three sides and once the rig leaves location, the fourth side will be fenced. All fencing must be a legal fence in accordance with New Mexico State Law. Liquids in pits will be allowed to evaporate, or be properly disposed of, before pits are filled and recontoured. (This office will be notified 24 hours prior to fluid hauling). Under no circumstances will pits be cut and drained. Aeration of pit fluids must be confined within the pit area. Upon completion of the well the reserve pit will be covered with screening or netting and remained covered until the pit is reclaimed. All production pits 16 feet in diameter or larger will be covered with screening or netting.

- E. No gravel or other related minerals from new or existing pits on Federal land will be used in construction of roads, well sites, etc., without prior approval from the Surface Managing Agency.
- F. Berms or firewalls will be constructed around all storage facilities sufficient in size to contain the storage capacity of the tanks, or the combined capacity of tanks if a rupture could drain more than one tank. Berm walls will be compacted with appropriate equipment to assure proper construction.
- G. All roads on public land must be maintained in good passable condition.
- H. A proposed use of pesticide, herbicide or other possible hazardous chemical on BLM land shall be cleared for use prior to application.

II. Cultural Resources (Archaeology)

- A. DISCOVERY OF CULTURAL RESOURCES IN THE ABSENCE OF MONITORING: in its operations, operator discovers any previously unidentified historic or prehistoric cultural resources, then work in the vicinity of the discovery will be suspended and the discovery promptly reported to the BLM Area Manager. BLM will then specify what action is to be taken. If there is an approved "discovery plan" in place for the project, then the plan will be executed. In the absence of an approved plan, the BLM will evaluate the significance of the discovery and consult with the State Historic Preservation Officer in accordance with 36 CFR Section 800.11. Minor recordation, stabilization, or data recovery may be performed by BLM or a permitted cultural resources consultant. If warranted, more extensive treatment by a permitted cultural resources consultant may be required of the operator prior to allowing the project to proceed. Further damage to significant cultural resources will not be allowed until any required treatment is completed. Failure to notify the BLM about a discovery may result in civil or criminal penalties in accordance with the Archeological Resources Protection Act of 1979 (as amended).
- B. DISCOVERY OF CULTURAL RESOURCES DURING MONITORING: If monitoring confirms the presence of previously unidentified cultural resources, then work in the vicinity of the discovery will be suspended and the monitor will promptly report the discovery to the BLM Area Manager. BLM will then specify what action is to be taken. If there is an approved "discovery plan" in place for the project, then the plan will be executed. In the absence of an approved plan, the BLM will evaluate the significance of the discovery and consult with the State Historic Preservation Officer in accordance with 36 CFR Section 800.11. Minor recordation, stabilization, or data recovery may be performed by BLM or a permitted cultural resources consultant. If warranted, more extensive treatment by a permitted cultural resources consultant may be required of the operator prior to allowing the project to proceed. Further damage to significant cultural resources will not be allowed until any required treatment is completed.
- C. DAMAGE TO SITES: If, in its operations, operator damages, or is found to have damaged any previously documented or undocumented historic or prehistoric cultural resources, excluding "discoveries" as noted above, the operator agrees at his/her expense to have a permitted cultural resources consultant prepare and have executed a BLM approved data recovery plan. Damage to cultural resources may result in civil or criminal penalties in

accordance with the Archeological Resources Protection Act of 1979 (as amended).

III. Reseeding and Abandonment

- A. All surface areas disturbed during drilling activities and not in use for production activities, will be reseeded the first July-September period after reserve pit has been filled in and/or location abandoned. For producing locations, this should occur in the first 12 months after drilling is completed.
- B. After top soil has been placed on location, compacted areas of well pad will be plowed or ripped to a depth of 12" before reseeding. The surface should be left rough to help retain rain fall. All seeding is recommended to be done between July 1 and September 15. Seeding will be done with a disc-type drill with two boxes for various seed sizes. The drill rows will be eight to ten inches apart. Seed will be planted between 1/2 inch deep and 3/4 inch deep. The seeder will be followed with a drag, packer or roller to insure uniform coverage of seed, and adequate compaction. Drilling of the seed will be done on the contour where possible. Where slopes are too steep for contour drilling a "cyclone" hand-seeder or similar broadcast seeder will be used, after preparation of an adequate seed-bed. Seed will then be covered to a depth described above by whatever means is practical. Mulching, excelsior netting and/or netting may be required on steep slopes.
- C. After seeding remaining rocks and vegetation (trees, brush, etc.) should be placed on the seeded areas using back hoes or rubber tired frontend loaders, so as not to detract from the natural appearance of the area.
- D. If, in the opinion of surface management agency, seeding is unsuccessful, lessee/operator may be required to make subsequent seedings.
- E. If, upon abandonment of wells, the retention of access road is not considered necessary for the management and multiple use of the natural resources, it will be ripped a minimum of 12" in depth. After ripping, water bars will be installed. All ripped surfaces are to be protected from vehicular travel by construction of a dead-end ditch and earthen barricade at the entrance to these ripped areas. (Reseeding of the affected areas may be required).

BUREAU OF INDIAN AFFAIRS

SURFACE MANAGEMENT STIPULATIONS

TO BE INCLUDED IN APD

RI M

		92 AUG 27 PH 2:	03
OMPA Chu	ska Energy Co.	\$7. AUG = .	TIPULATIONS
WELL NO	er I-F	019 FA 6104	CHECKED
DATE OF INSPECTION: De	cember 18, 1991	· · · · · · · · · · · · · · · · · · ·	APPLY
	Pornett		
1. ALL ABOVE GROUND STRUCTO NON-GLARE COLOR.			
GREEN	FED. STANDARD	595A - 363	318 127 357 277
2. COMPACTED AREAS WILL B BEFORE RESEEDING. SEED BROADCAST AND FOLLOWED SEED MIX WILL BE APPLIE SEED MIX WILL BE USED.	WILL BE DRILLED TO A BY A DRAG OR PACKER.	DEPTH OF .5 TO . IF BROADCAST, THE	75 INCH OR RECOMMENDED
SPECIES		LBS./ACR	e/pls
CRESTED WHEATGRASS SLENDER WHEATGRASS SMOOTH BROME. ORCHARDGRASS YELLON SWEETCLOVER SAINFOIN. WESTERN WHEATGRASS SAND DROPSEED. ALKALI SACATON. INDIAN RICEGRASS GALLETA. NEEDLE-N-THREAD. SQUIRREL TAIL. SIDE OATS GRAMA.		5	
→ FOUR-WING SALTBUSH		ع	
SHADSCALEWINTER PAT		• • • • • • • • • • • • • • • • • • • •	
(PURITY X GERMINATION =	PLS)		

- 3. \checkmark THE TOP $\frac{8}{\text{SIDE}/\text{CORNEP}}$ INCHES OF SOIL WILL BE SALVAGED, STOCKPILLD, AND STABILIZED ON THE $\underline{\hspace{0.5cm}}$ SIDE/CORNEP OF THE WELL PAD AND/OR IN THE "L" CORNER OF THE WELL PAD AND RESERVE PIT FOR USE IN REVEGETATING THE SITE.
- 4. $\overline{\mathit{NA}}$ UPON ABANDONMENT, THE WELL PAD WILL BE FENCED WITH A STANPURD FIVE-STRAND BARB WIRE FENCE, OR EQUIVALENT AND WILL HAVE NO GATES. THE FENCE WILL BE MAINTAINED FOR TWO YEARS TO ALLOW FOR SEEDING ESTABLISHMENT AND WILL THEN BE REMOVED.

5. ACCESS ROADS NOT NEEDED FOR THROUGH TRAFFIC WILL BE BARRICADED AND RESERVED IN ACCORDANCE WITH \$2. WATER BARS WILL BE CONSTRUCTED TO THE FOLLOWING SPECIFICATIONS.

 \$ SLOPE
 SLOPE DISTANCE

 1 - 5\$
 200 FEET

 5\$ - 15\$
 100 FEET

 GREATER THAN 15\$
 50 FEET

- 6. AN EARTHEN BERM (24/INCHES/FEET HIGH) WILL BE CONSTRUCTED AROUND THE PERIMETER OF THE WELL PAD, EXCEPT ON THE HIGH/CUT SIDE OF THE WELL PAD.
- 7. THE RESERVE PIT WILL BE LINED TO PREVENT SEEPAGE FROM OCCURRING.
- 8. MA THE RESERVE PIT WILL BE CONSTRUCTED LONG AND NARROW (X FEET) SO THAT THE 'VIT CAN BE ACCOMPDATED AND ANY POTENTIAL HAZARDS REDUCED OR ELIMINATED.
- 9. <u>NA</u> IMMEDIATELY FOLLOWING DRILLING, THE FLUIDS OF THE RESERVE PIT WILL BE PUMPED AND DISPOSED OF PER BLM INSTRUCTIONS. A SUNDRY NOTICE FOR THIS ACTION IS REQUIRED BY BLM.
- 10. NADIVERSION DITCH (ES) WILL BE CONSTRUCTED ON THE SIDE OF THE WELL PAD ABOVE/BELOW (CIRCLE ONE) THE CUT SLOPE DIVERTING ANY RUNOFF TO THE
- 11. NATHE WASH (ES) WILL BE DIVERTED AROUND THE SIDE OF THE WELL PAD.
- 12. CULVERT(S) OF SUFFICIENT SIZE WILL BE PLACED ON ALL DRAINAGE CROSSINGS OF THE ACCESS ROAD DETERMINED NECESSARY DURING THE ON-SITE INSPECTION.
- 13. NO PRODUCTION FLOWLINES NOR GAS SALES LINES WILL BE CONSTRUCTED UNTIL THEIR RIGHT-OF-WAYS/EASEMENTS ARE INSPECTED AND APPROVED BY THE SURFACE MANAGEMENT AGENCY.
- 14. NA ANY FLOWLINE(S) (SURFACE/SUBSURFACE) WILL BE CONSTRUCTED PARALLELING
 NEW AND EXISTING ROAD RIGHT-OF-WAYS, EXCEPT
- 15. NA THE TOP INCHES OF SOIL OF ANY SUBSURFACE FLOWLINE CONSTRUCTED WILL BE ROLLED/SCRAPED TO ONE SIDE OF THE BLADED LINE AND WILL BE DISTURBED AS LITTLE AS POSSIBLE DURING THE ACTUAL CONSTRUCTION. IMMEDIATELY FOLLOWING INSTALLATION, THE ROLL OF TOPSOIL SALVAGED WILL BE REDISTRIBUTED OVER THE BLADED LINE AND WILL BE RESERVED IN ACCORDANCE WITH ITFM \$2. IN ADDITION TO THIS, ALL AREAS DISTURBED (INCLUDING THE REPLACED TOPSOIL) WILL BE IMPRINTED WITH A LAND IMPRINTER OR SHEEP'S FOOT TYPE ROLLER TO CREATE A PARTERN OF SMALL DEPRESSIONS TO ENHANCE VEGETATIVE REGROWIH. ALL DRAINAGES CROSSED BY THESE LINE(S) WILL BE RESTOPED, AS NEAR AS POSSIBLE, TO THEIR ORIGINAL FORM. WATER BARS WILL BE CONSTRUCTED IN ACCORDANCE WITH ITEM \$5.

- 16. FENCE (S) CROSSED BY THE ACCESS ROAD WILL BE BRACED AND TIED OFF SETORE CUTTING OF THE WIRES TO PREVENT SLACKENING OF THE FENCELINES. BOTH A CATE AND CATTLEGUARD WHICH MUST BE BIA APPROVED WILL BE INSTALLED. SEE BELL W
- 17. STORAGE TANK(S) INSTALLED ON THE LOCATION WILL BE SURROUNDED BY A DIKE OF SUFFICIENT CAPACITY TO CONTAIN 1-1/2 TIMES THE STORAGE CAPACITY OF THE TANK(S).
- 18. THE SIPULATIONS SET FORTH IN THE ARCHEOLOGICAL CLEARANCE LETTER DATED 01/07/92 WILL BE STRICTLY ADHERED TO. CLEARANCE NO. HPD-9/-424
- 19. UPON ABANDONMENT, ALL MATERIAL BROUGHT IN TO PLATE THE SURFACE OF THE I PAD AND/OR THE ACCESS ROAD WILL BE CLEANED UP AND DISPOSED OF PRIOR TO EEEDING.
 - 7 THE CONSTRUCTION WORK CONDUCTED AT THIS LOCATION WILL NEED TO BE PECTED BEFORE THE DRILL RIG IS MOVED ON THE LOCATION.

ANGES/DEVIATIONS MADE FROM THE APPROVED APD MUST BE CLEARED PPROVED BY THE SURFACE MANAGEMENT AGENCY. THE SURFACE EMENT AGENCY CAN BE CONTACTED AT (505) 368-4427.

Approval has been granted to the land user to itruct a fence along the east side of the Hovenweep d. Chuska Energy will be required to install a tlequard on their access road when the fence is structed.



United States Department of the Interior

BUREAU OF LAND MANAGEMENT FARMINGTON RESOURCE AREA 1235 LAPLATA HIGHWAY FARMINGTON, NEW MEXICO \$7401



IN REPLY REFER TO. 3162.3-1 (019)

Chuska Energy Company #Tower 1F NOG 8702-1116 SELNW4 sec. 1, T. 40 S., R. 25 E. San Juan County, Utah

Above Data Required on Well Sign

GENERAL REQUIREMENTS FOR OIL AND GAS OPERATIONS ON FEDERAL AND INDIAN LEASES

In addition to those requirements set forth in the laws, regulations and Onshore Orders, these requirements apply generally to all oil and gas operations on Federal and Indian leases. They apply specifically to the above-described well. Special requirements that apply and are effective for this well, if any, are check-marked in Section VII of these General Requirements. The failure of the operator to comply with these requirements and the filing of required reports will result in strict enforcement of 43 CFR 3163.1 or 3163.2.

I. GENERAL

- A. Full compliance with all applicable laws, regulations, and Onshore Orders, with the approved Permit to Drill, and with the approved Surface Use and Operations Plan is required. Lessees and/or operators are fully accountable for the actions of their contractors and subcontractors.
- B. Each well shall have a well sign in legible condition from spud date to final abandonment. The sign should show the operator's name, lease serial number, or unit name, well number, location of the well, and whether lease is Tribal or allotted, (see 43 CFR 3162.6(b)).
- C. A complete copy of the approved Application for Permit to Drill, along with any conditions of approval, shall be available to authorized personnel at the drill site whenever active drilling operations are under way.
- D. For Wildcat wells only, a drilling operations progress report is to be submitted weekly from spud date until the well is completed and the Well Completion Report (Form 3160-4) is filed. The report should be on 8 1/2 x 11 inch paper, and each page should identify the well by; operator's name, well number, location and lease number.
- E As soon as practical, notice is required of all blowouts, fires and accidents involving life-threatening injuries or loss of life (See NTL-3A).

- 2. Well Completion Report (Form 3160-4) will be submitted within 30 days after well has been completed.
- 3. Two copies of all electrical and open-hole logs run (two copies of the mud log are required if no open hole electric logs are run).
 - 4. A cement evaluation log if cement is not circulated to surface.

III. DRILLER'S LOG

- A. The following shall be entered in the daily driller's log:
- 1. Blowout preventer pressure tests, including test pressures and results.
 - 2. Blowout preventer tests for proper functioning.
 - 3. Blowout prevention drills conducted.
 - 4. Casing run, including size, grade, weight, and depth set.
- 5. How pipe was cemented, including amount of cement, type, whether cement circulated to surface, location of cementing tools, etc..
 - 6. Waiting on cement time for each casing string.
- Casing pressure tests after cementing, including test pressure and results.
- 8 Estimated amounts of oil and gas recovered and/or produced during drillstem tests.

IV. GAS FLARING

- * 30 days, unless a longer test period specifically is approved by the authorized officer The 30-day period begins when the casing is first perforated for cased holes, and when Total Depth (TD) is reached for open hole completion

ATE OF UTAH

	DIVISION OF	DIL, GAS AND MININ	IG.		_			
		-, -, -, -, -, -, -, -, -, -, -, -, -, -			9. Lease Designation and NOC 8702-11			
APPLICATION FOR PERMIT TO DRILL OR DEEPEN						a Findian, Alonse or Tribe Name. Navajo Tribal		
IA Type of Work: DRILL 전 DEEPEN []					7. Unit Agreement Name: N/A			
B. Type of Well: OIL	8. Farm or Lease Name:							
2. Name of Operator: Chuska Energ	e. Well Number: Tower 1F							
3. Address and Telephone N 3315 Bloomfi	_{lumber:} eld Highway, Farmi	ngton, N.M. 874	01		(Wildcat)			
4. Location of Well (Footage At Surface: At Proposed Producing Zo	2150' FNL & 2380	· FWL	۵		Sec. 1, T40			
	rection from nearest town or post office				12. County: San Juan	13 State Utcell		
15: Distance to nearest property or lease line (fe		16 Number of acres in lea 49,997	se	17 Numi	ber of acres assigned to this	aeil .		
18. Distrince to nearest well, completed, or applied for		19. Proposed Depth: 6,130 *			y or cable took Rotary			
21. Elevations (show whether 5167 GR/518)					22. Approximate date w			
23.	PROP	OSED CASING AN	D CEMENTING P	ROGRAM		·····		
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOCI	SETTING DEPTH	_	NITY OF CE			
7 7/8"	K-55, 8 5/8" K-55, 5 1/2"	24.0 15.5	500' 6000'		'G'/2% CaC1/1 'G'/2% CaC1/1			
	iRAM. If proposal is to deepen, give d sured and true vertical depths. Give bl				s to drill or deepen directions	ulty, give pertinent data on		

CONFIDENTIAL

SEE ATTACHED FOR 10 POINT DRILLING PLAN AND	DETAILED DRILLING PROGRAM	
	g gp - 9 1866	
Name & Signature Baff, Wieland BARRY A. WIELAND	Tite OPERATIONS MANAGER Cate 5-27-93	
(This space for State use only) API Number Assigned: 43 0.37 - 31724	Approval: GLM approval 9-1-92 RU49-3-3	



CHUSKA ENERGY COMPANY

3315 BLOOMFIELD HIGHWAY . FARMINGTON, NEW MEXICO 87401 . PHONE (505) 326 5525

September 7, 1993

State of Utah Department of Natural Resources Division of Oil, Gas and Mining 355 West North Temple 3 Triad Center, Suite 350 Salt Lake City, Utah 84180-1203



DIVISION OF OIL, GAS & MINING

Attn: Mr. R.J. Firth
Associate Director

RE: Utah Division of Oil, Gas and Mining's

Reporting Requirements

Dear Mr. Firth:

Enclosed please find the following reports and well logs run on wells drilled by Chuska Energy Company during the period January 1, 1992 forward. The Production Reports were filed in June under a separate cover letter by our home office, Harken Energy Company, out of Dallas. We have received conflicting statements as to whether or not the data was received. Therefore, a second set of Production reports from January 1992 forward are also forwarded to your office under this cover letter.

APD(S), SUNDRY NOTICES AND ENTITY ACTION FORMS

Barnes 18M Barnes 18M(N) Brown Hogan 1A-2 Burro 33I Clay Hill 33-0 Crane 35H Copperhead 15E D.C. Anticline 35K Heron 35H Heron 35H(A) Jack 31G Kokopelli 291 Lark 19B Lark 19B(G) Lighting Rock 2E Lizard 4M Lone Mountain Creek 12F-1

10/22/93 api num: 43-037-31729 D T A I L WELL DAT menu: opt 00 prod zone: sec twnshp range qr-qr entity: 40 5 25E 1 well name: Tour operator: : CHUSKA ENERGY COMPANY meridian: field: : Find code (Jout confidential flag: Y confidential expires alt addr flag: * * * application to drill, deepen, or plug back * * * lease number: NoG 8702-1116 lease type: 2 well type: lease type: 2 well type: OW surface loc: 2150 FAL 2380 FWL unit name: prod zone loc: 2150 FNL 2380 FWL proposed zone: IS-DC depth: 6/30 elevation: 5767 6.R auth code: 649-3-3 apd date: 7-1-72 * * completion information * * date recd: la/pa date: spud date: compl date: total depth: producing intervals: bottom hole: first prod: well status: 24hr oil: 24hr gas: 24hr water: gas/oil ratio: * * well comments: api gravity: BLM APD ANYOUN/ Date Used opt: 21 api: zone: date(yymm): enty acct:

OVIEN Little VI

OPERATOR	CHUSKA	ENERGY	COMPANY
O' LIVITOR			

OPERATOR ACCI, NO N 9290

ADDRESS __

CURRENT ACTION **HEW** API NUMBER WELL HARE SPUO EFFECTIVE HELL LOCATION CODE ENTITY NO. ENTITY NO. SÇ ΤP ρG COUNTY DATE DATE hon 99999 11579 43-037-31727 KOKOPELLI 291 NESE 29 418 23E SAN JUAN 11-3-93 Α WELL 1 COMMENTS: 11-3-93 NESW 40S 25E 99999 11580 43-037-31724 NORTH RUINS 16K 1 16 SAN JUAN A WELL 2 COMMENTS: 99999 11581 - 43-037-31725 SHALENE 11 K 24E 11-3-93 NWSE 11 428 SAN JUAN . Α WELL 3 COMMENTS, 11-3-93 SENW 40S 25E SAN JUAN A 99999 11582 43-037-31729 TOWER 1F WELL 4 COMMENTS: 11-3-93 SAN JUAN 99999 11583 43-037-31730 BOX CANYON 5F SENW 5 42S 25E Α WELL 5 COMMENTS. ACTION CONES (See instructions on back of form) L. CORDOVA (DOGM) A - Establish new entity for new well (single well only) B - Add new well to existing entity (group or unit well) Signature

D - Re-assign well from one existing entity to a new entity

E - Other (explain in convients section)

Title

Phone No. (____)

ADMIN. ANALYST

11-3-93

Date

NOTE. Use COMMENT section to explain why each Action Code was selected

C - Re-assign well from one existing entity to another existing entity

FEBRUARY 8, 1994

TO: WELL FILE

FROM: K. M. HEBERTSON

RE: Status, Tower 1F 43-037-31729 1-40S-25E

Per telephone conversation with the operator concerning the status of this well, it was determined that the well will not be drilled and the operator has acknowledged that the APD has expired. The operator has been informed that the APD will need to be refiled in order to drill this well at a future date.

As of the above date the APD has been rescinded and the file sent to the LA archives.

KMH